SuccessMaker Enterprise v1.7

System Requirements

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1 Introduction

SuccessMaker Enterprise is an innovative deployment of SuccessMaker courseware and the ResultsManager management system that focuses on reading and mathematics curriculum for the Pre-K to 8th grade education sector. This technology-driven solution meets the needs of districts and schools, regardless of size and infrastructure. ResultsManager, the management system component of SuccessMaker Enterprise, offers a choice of two user interfaces to accommodate individual working styles. It also integrates industry-standard reporting software to provide reports that are easy to read and well-organized.

The SuccessMaker curriculum, aligned with national, state, and local standards and objectives, has a proven track record for delivering the results that the educators need. According to the National Education Technology Plan from the U.S. Department of Education, the most recent research and evaluation studies demonstrate that school improvement programs that employ technology for teaching and learning yield positive results for both students and teachers. Within the school market today, a wide variety of technology implementations exist, from the single computer in the back of the classroom to a laptop in the hands of every student in the school. SuccessMaker Enterprise is packaged to address all such technology implementations with four scalable delivery configurations.

SuccessMaker Enterprise offers these configurations to suit the needs of students and teachers. The configurations are flexible and scalable, allowing customers to augment initial investments with additional options as their schools evolve and grow.

This document provides detailed information about system requirements and network capacities. The system recommendations contained in this document are subject to change at any time due to hardware and software changes beyond the control of Pearson. Changes may include, but are not limited to, operating systems and hardware technologies dictated by the market.

This document also describes the hardware used to support a SuccessMaker Enterprise School or SuccessMaker Enterprise District installation.

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Performance Considerations

Based on current hardware and software technologies, Pearson has determined that the system requirements listed in this document will deliver acceptable operation and performance. Your site's actual performance may vary due to different configurations including the following:

- Server application loading
- Available network bandwidth
- Client security configuration
- Number of concurrent users
- Courseware usage
- Other variables

System requirements are subject to change because of rapid advances and changes in technology, as well as future product enhancements. If you have questions regarding the suitability of your specific computing environment, contact your Pearson Sales Representative or Technical Specialist.

Windows Workstation

A Windows® workstation is a personal computer running Microsoft® Windows, functioning either as a stand-alone unit or a workstation linked to a local area network (LAN). This computer is used by students and teachers to access Pearson educational software. Management system functions can also be performed on this workstation.

To view the system requirements for a Windows workstation, see "Windows Workstations" on page 6.

NOTE: If you use the new Math Concepts and Skills 2 course, your system needs more memory to accommodate the technology. See "Windows Workstations" on page 6.

Macintosh Workstation

A Macintosh® workstation is a Macintosh-based personal computer, linked to a local area network (LAN). This computer is used by students and teachers to access Pearson educational software. Most management system functions can also be performed on this workstation.

To print reports from a SuccessMaker client running on a Macintosh workstation in Novell NetWare environment, you must install the print service workstation. For more information, see "SuccessMaker Enterprise Print Service Workstation" on page 12.

To view the system requirements for a Macintosh workstation, see "Macintosh Workstations" on page 7.

NOTE: If you use the new Math Concepts and Skills 2 course, your system needs more memory to accommodate the technology. See "Macintosh Workstations" on page 7.

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Home Access Workstation

A Home Access workstation is a Windows-based or a Macintosh-based personal computer, functioning from home, for use with SuccessMaker Enterprise District's Home Access module. This workstation must have an Internet connection and must use a standard, non-customized Microsoft Internet Explorer Web browser on Windows workstations or a Safari Web Browser on Macintosh workstations.

To view the system requirements for a Windows-based Home Access workstation, see "Windows Workstations" on page 6.

To view the system requirements for a Macintosh-based Home Access workstation, see "Macintosh Workstations" on page 7.

SuccessMaker Enterprise Local Server

The SuccessMaker Enterprise local server is a high-speed computer in a local area network (LAN) dedicated to storing the programs and data files needed at the site level to use the SuccessMaker Enterprise product.

To view the system requirements for the server, see "SuccessMaker Enterprise Local Server" on page 9.

SuccessMaker Enterprise Central Server

The central server is a District-level server for the SuccessMaker Enterprise District product. A LAN client workstation connected to the central server is required to generate the aggregate reports.

To view the system requirements for the server, see "SuccessMaker Enterprise Central Server" on page 10.

SuccessMaker Enterprise Task Manager Workstation

A Task Manager workstation is a Windows-based personal computer, used to manage the database replication activities and to manage backing up servers in the replicating environment of SuccessMaker Enterprise District.

To view the system requirements for a Task Manager workstation, see "SuccessMaker Enterprise Task Manager Workstation" on page 11.

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SuccessMaker Enterprise Print Service Workstation

A print service workstation is a Windows-based personal computer, configured to print reports from SuccessMaker clients on Macintosh workstations in a Novell NetWare server environment.

To view the system requirements for a print service workstation, see "SuccessMaker Enterprise Print Service Workstation" on page 12.

SuccessMaker Enterprise Web Server

The Web server is a server used for the SuccessMaker Enterprise District product's Home Access module.

To view the system requirements for the server, see "SuccessMaker Enterprise Web Server" on page 13.

For the most up-to-date versions of all system requirements, see the Pearson Web site at:
http://www.pearsonschool.com/digital

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2 System Requirements

This chapter describes the system requirements for:

- "Windows Workstations" on page 6.
- "Macintosh Workstations" on page 7.
- "SuccessMaker Enterprise Local Server" on page 9.
- "SuccessMaker Enterprise Central Server" on page 10.
- "SuccessMaker Enterprise Task Manager Workstation" on page 11.
- "SuccessMaker Enterprise Print Service Workstation" on page 12.
- "SuccessMaker Enterprise Web Server" on page 13.

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Windows Workstations

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstation uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Table 2-1. System requirements for stand-alone, local area network, and home access workstations

Component and Operating Systems	Minimum Requirements	Recommendations
Windows 2000 and Windows XP (PRO and HOME) ▪ Windows 2000 requires Service Pack 4 ▪ Windows XP (PRO and HOME) requires Service Pack 2	▪ Processor: Pentium III @ 450 MHz ▪ Memory: 256 MB	▪ Processor: Pentium IV @ 1.6 GHz (or faster) ▪ Memory: 512 MB
Monitor Resolution	1024 x 768 with thousands of colors	
Hard Disk Drive Space	▪ 220 MB of free disk space ▪ 600 MB of free disk space if you install the Math Concepts and Skills 2 course to the local hard drive of your workstation.	
CD/DVD Drive	One 4x CD drive or one 2x DVD drive (or faster) for installation and for optionally running the courseware from the workstations using CD or DVD media.	
Audio	Any Creative Labs or 100% compatible sound card, including Sound Blaster® 16 (or 32), PCI 64, or 16-bit VIBRA® series products	
Network Protocols	TCP/IP required	
Additional Required Software	▪ QuickTime® 5, 6.5 or 7.0.3 required at all workstations ▪ Adobe® Reader® 8.0 required at all workstations	
Internet Browser (Required for Home Access client only)	▪ Microsoft Internet Explorer 5.5 with Service Pack 2 ▪ Microsoft Internet Explorer 6.0 with Service Pack 2	
Printer	Any inkjet or laser printer supported by the operating system	

NOTE: To successfully run the District Home Access module, the workstation must have a 56K or faster connection to the Internet.

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Macintosh Workstations

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstation uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Table 2-2. System requirements for local area network and home access workstations

Component and Operating Systems	Minimum Requirements	Recommendations
Mac OS X (10.3.9 and 10.4.8)	**PPC** ▪ Processor: G3 @ 500 MHz (or faster) ▪ Memory: 256 MB **Intel** ▪ Processor: 1.5 GHz Intel Core Solo ▪ Memory:512 MB	**PPC** ▪ Processor: G4 @ 800 MHz (or faster) ▪ Memory: 512 MB **Intel** ▪ Processor: 1.66 GHz Intel Core Duo ▪ Memory:512 MB
Notes: ▪ Mac Intel based workstations are not capable of running OS 9 classic support. ▪ The following courses require OS 9 classic support and will run only on Mac PowerPC based workstations: Algebra Topics, First Adventures Bookshelf, Math Corner, Math Concepts and Skills Spanish, Math Investigations with Math Processor, Reading Investigations, Reading Adventures Primary with Story Painter, Science Discovery, Spelling Skills, Vamos a leer with Story Painter Spanish, and Writer's Studio. ▪ The following courses are designed specifically to run on the Mac OS X operating system and will operate on both Mac PowerPC and Intel based machines: Math Concepts and Skills, Math Concepts and Skills 2, Readers Workshop, Initial Reading, Reading Readiness, Discover English, and Reading Adventures.		
Monitor Resolution	1024 x 768 with thousands of colors	
Hard Disk Drive Space	▪ Minimum 200 MB of free disk space **Note**: Minimum 600 MB of free disk space if you install the Math Concepts and Skills 2 course to the local hard drive of your workstation.	
CD/DVD Drive	One 4x CD drive or one 2x DVD drive (or faster) for installation and for optionally running the courseware from the workstations using CD or DVD media.	
Additional Required Software	▪ QuickTime 5, 6.5 or 7.0.3 required at all workstations ▪ MAC OS X 10.3.x: Adobe® Reader® 7.09 ▪ MAC OS X 10.4.3 or later: Adobe® Reader® 8.0 ▪ Java 1.4.2 Update 2	
Audio	Built in	

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Table 2-2. System requirements for local area network and home access workstations

Component and Operating Systems	Minimum Requirements	Recommendations
Network Protocols	TCP/IP required	
Internet Browser (Required for Home Access client only)	▪ Mac OS X 10.3.9: Apple Safari™ 1.3.2 or later ▪ Mac OS X 10.4.8: Apple Safari 2.0.4 or later	

NOTE: For the District Home Access module, the workstation must have a 56K or faster connection to the Internet.

NOTE: Stand-alone configuration is not supported for Macintosh workstations.

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SuccessMaker Enterprise Local Server

A local server can also be used as a courseware server. Courseware servers only run the SuccessMaker courses and do not have management system functionality.

Contact Pearson at 1-888-977-7900 for further information about the SuccessMaker Enterprise Central Server.

> These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.
>
> Consider the minimum requirements applicable only if your server uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

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Table 2-3. System requirements for a local server

Component and Network Operating Systems	Minimum Requirements	Recommendations
Novell® NetWare® 6*, and 6.5* ▪ Netware 6 and 6.5 with Support Pack v5.0	▪ Processor: Pentium III @ 1 GHz, single processor ▪ Memory: 512 MB	▪ Processor: Pentium IV @ 2 GHz (or faster) ▪ Memory: 512 MB
Windows 2000 Server** or Windows 2003 Server** or Windows 2003 Server R2 (Only 32-Bit Windows Server OS's supported) ▪ Windows 2000 Server: Service Pack 4 ▪ Windows 2003 Server: Service Pack 1	▪ Processor: Pentium III @ 1 GHz, single processor ▪ Memory: 512 MB	▪ Processor: Pentium IV @ 2 GHz (or faster) ▪ Memory: 512 MB
Network Protocols Required	TCP/IP	TCP/IP
Hard Disk Drive Space **Note**: Volume Compression is Not supported	20 GB of free space available	20 GB of free space available
Hard Drive Subsystem	SCSI, SAS or SATA drive **Note:** Servers with SATA drives can support only a maximum of 50 workstations.	SCSI or SAS
CD	A CD drive is required	A CD drive is required

* Novell-Certified server required.

** Microsoft-Certified server required.

NOTE: Windows 2000 or 2003 Server or NetWare 6.5 server with Support Pack 5.0 is required for Macintosh workstations. In addition, one Windows workstation is required for loading the SuccessMaker Enterprise software.

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SuccessMaker Enterprise Central Server

The central server is the District-level server for the SuccessMaker Enterprise District product. The following minimum requirements are specified for Districts with up to 100 sites. Districts with up to 250 sites can be supported with enhanced hardware.

Contact Pearson at 1-888-977-7900 for further information about the SuccessMaker Enterprise Central Server.

> These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.
>
> Consider the minimum requirements applicable only if your server uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Table 2-4. System requirements for a district central server

Component and Network Operating Systems	Minimum Requirements
Windows 2000 Server with Service Pack 4** Windows 2003 Server with Service Pack 1 Windows 2003 Server R2 (Only 32-Bit Windows Server OS's supported)	▪ Dual Intel Xeon Processors @ 2.0 GHz ▪ Memory: 2 GB RAM
Network Card	100 MB Ethernet with full duplex capability
Hard Disk Drive Space	40 GB of free space available
Network Protocols	TCP/IP required
Hard Drive Specification Configuration	SCSI or SAS drive array with two physical disks and controller, or RAID/striped configuration

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SuccessMaker Enterprise Task Manager Workstation

The Task Manager workstation is used in conjunction with the SuccessMaker Enterprise District product's central server. The following minimum requirements are specified to support a district server with up to 100 sites with a single Task Manager. Additional Task Manager workstations are required to support districts that exceed 100 sites.

Contact Pearson at 1-888-977-7900 for further information about the SuccessMaker Enterprise Task Manager.

> These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.
>
> Consider the minimum requirements applicable only if your workstation uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Table 2-5. System requirements for a Task Manager workstation

Component and Network Operating Systems	Minimum Requirements
Windows 2000 Professional with Service Pack 4 Windows XP (Pro)	▪ Pentium IV @ 2.4 GHz ▪ Memory: 512 MB RAM
Network Card	100 MB Ethernet with full duplex capability
Hard Disk Drive Space	20 GB of free space available
Network Protocols	TCP/IP required

NOTE: District sites that use NetWare servers for remote school servers must have the Novell Client software loaded on the Task Manager workstation for proper authentication.

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SuccessMaker Enterprise Print Service Workstation

The print service workstation is used to print reports from SuccessMaker clients on Macintosh workstations in a Novell Netware server environment.

In a Novell NetWare server environment, Macintosh workstations are only supported on Novell NetWare 6.5 server with Support Pack 5. You cannot print reports from a SuccessMaker Enterprise client, if you do not configure a print service workstation in your network. See Table 2-6 for the system requirements of the print service workstation.

Contact Pearson at 1-888-977-7900 for further information about the print service workstation.

> These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.
>
> Consider the minimum requirements applicable only if your workstation uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Table 2-6. System requirements for a print service workstation

Component and Network Operating Systems	Minimum Requirements
Windows 2000 Professional with Service Pack 4 Windows XP (Pro) with Service Pack 2	▪ Pentium IV @ 2.4 GHz ▪ Memory: 512 MB RAM
Network Card	100 MB Ethernet with full duplex capability
Hard Disk Drive Space	5 GB of free space available
Network Protocols	Static TCP/IP required
NetWare Client	Client version 4.90 with Service Pack 2 or Client version 4.91 with Service Pack 1

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SuccessMaker Enterprise Web Server

The Web server is used for the SuccessMaker Enterprise District product's Home Access module. The Web server must have a Fully Qualified Domain Name (FQDN).

- Central server connects to the web server using the Transmission Control Protocol/User Datagram Protocol (TCP/UDP) and port 2638 (2638 is the default Sybase port)
- Web clients connect to the web server using port 80. Port 80 must be allowed to communicate freely through the firewall.

Contact Pearson at 1-888-977-7900 for further information about the SuccessMaker Enterprise Web Server.

See Table 2-7 for the system requirements for the web server.

> These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.
>
> Consider the minimum requirements applicable only if your server uses a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

Table 2-7. System requirements for a Web server

Component and Network Operating Systems	Minimum Requirements
Windows 2000 Server with Service Pack 4 Windows 2003 server with Service Pack 1 Windows 2003 Server R2 (Only 32-Bit Windows Server OS's supported)	▪ Dual Intel Xeon Processors @ 2.0 GHz ▪ Memory: 1 GB RAM
Hard Disk Drive Space	20 GB of free space available
Network Protocols	TCP/IP required
Web Server Software	IIS5.0 - Windows 2000 IIS6.0 - Windows 2003
Hard Drive Specification/Configuration	SCSI or SATA drive and controller

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3 Network Capacities

This chapter describes the District LAN/WAN connections and the local server network capacities for Windows and Novell Netware servers.

District LAN/WAN Connection Speeds

For the SuccessMaker Enterprise District setup, you will need the LAN/WAN connection speeds mentioned in Table 3-1.

Table 3-1. LAN/WAN connection speeds

Connection Type	Connection Speed
Between Central Server and Task Manager	Task Manager should be on the same network as central server, with a full duplex connection to the central server. Connection should be 100 MB Ethernet.
Between Web Server and Central Server	100 MB Ethernet
Between each school Local Server and the Task Manager	T1 connection
For Home Access workstation	Minimum 56K connection

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Local Server Network Capacities

Table 3-2 describes network capacities for Macintosh and Window workstations running on a Windows 2000/2003 server environment.

Table 3-2. Windows 2000/2003 server network capacities with Macintosh or Windows workstations

Ethernet Topology	File Server	Number of 10/100-Mbps Switches Required	Number of NICs Required	Maximum Number of Workstations Supported
10/100 Switched	▪ Pentium III @ 1 GHz, single processor	2	2	240
100BaseTX	▪ Pentium III @ 1 GHz, single processor	None	2	120
1000BaseTX	▪ Pentium IV @ 2GHz, single processor	1	1	300

In a Novell NetWare server environment, Macintosh workstations are only supported on Novell NetWare 6.5 server with Support Pack 5.

Table 3-3 describes network capacities for Macintosh and Windows workstations running on a Novell Netware 6 or 6.5 environment.

Table 3-3. Novell NetWare 6 and 6.5 server network capacities with Macintosh or Windows Workstations

Ethernet Topology	File Server	Number of 10/100-Mbps Switches Required	Number of NICs Required	Maximum Number of Workstations Supported
10/100 Switched	▪ Pentium III @ 1 GHz, single processor	2	2	240
100BaseTX	▪ Pentium III @ 1 GHz, single processor	None	2	240
100BaseTX	▪ Pentium III @ 1 GHz, single processor	None	1	120
1000BaseTX	▪ Pentium IV @ 2GHz, single processor	1	1	300

Contact Pearson at 1-888-977-7900 for further information about the SuccessMaker Enterprise Web Server.

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